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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/741,578	12/19/2000	Hiroshi Oshigiri	P/2617-17	5926

32172 7590 08/25/2004

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EXAMINER

LEE, JOHN J

ART UNIT PAPER NUMBER

2684

DATE MAILED: 08/25/2004

12

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

**Application No.**

09/741,578

**Applicant(s)**

OSHIGIRI, HIROSHI

**Examiner**

JOHN J LEE

**Art Unit**

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 09 June 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 2-6,8-14,18 and 19 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 19 is/are allowed.
- 6) ☒ Claim(s) 2-6,8-14, and 18 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |   |   |
|---|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892)                        | 4) <input type="checkbox"/> Interview Summary (PTO-413)                     |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)    | Paper No(s)/Mail Date. _____  |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____   | 6) <input type="checkbox"/> Other: _____                                    |

## **DETAILED ACTION**

### ***Response to Arguments***

1. The Applicant's arguments/amendment received on June 09, 2004 have been carefully considered but they are not persuasive because the teaching of the cited references as set forth in the previous rejection reads on all claimed limitation as claims 2 – 6, 8 – 14, and 18. Thus, the finality of this Office Action is deemed proper.

Re Claims 2, 8, 13, and 18: The Examiner respectfully disagrees with Applicant's assertion that the combination of teaching of the Uchida (US Patent number 6,590,878) and Uchida (US Patent number 6,532,364) do not teach the claimed invention "stores a first identifier used for identifying a subscriber in an interface protocol between said wireless local loop access network system and said public switched telephone network, a second identifier used for identifying a subscriber in a radio signal interface protocol in said wireless local loop access network system, and data about correspondence between said first and second identifiers". Contrary to Applicant's assertion, Uchida (878) teaches MSC has a readable memory (67 in Fig. 4) for storing subscriber data that the memory stores the subscriber information data (see Fig. 25, 26) including identifying a subscriber in a radio signal interface protocol such of TDMA, CDMA for using the relationship information of the WLL station or mobile station (see Fig. 1, 4, 25 and column 12, lines 4 – 47). Also, the MSC (wireless local loop access network) comprising a type setting processor (63 in Fig. 4) incorporating with the memory operates designating the signaling processor connected to the PSTN interface and the base station interface for identifying radio signal interface protocol and PSTN interface protocol (more specifically, without

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storing those information in the memory, the processor can not perform controlling different user with different protocol pertaining different interface with different rate) (see Fig. 1, 4, 25, column 12, lines 4 – 47, and column 15, lines 33 – column 16, lines 29). Therefore, it is obvious to recognize the memory stores the identifying a subscriber in interface protocol between the MSC and PSTN and the radio signal interface protocol. Furthermore, Uchida (364) teaches MSC has memories (97, 98) and MSC has two kind of interfaces with PSTN which are high speed (data packet) communication and low speed (voice) communication, and MSC identifies the subscriber's connection and switches the connection depending on the subscriber interface protocol (see Fig. 5 and column 13, lines 5 – 59). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Uchida (878) system as taught by Uchida (364), provide the motivation to improve communication connection reliability for wireless communication system.

Applicant's attention is directed to the rejection below for the reasons as to why the claimed limitation is not patentable.

### ***Claim Rejections - 35 USC § 103***

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. **Claims 2-6, 8-14, and 18** are rejected under 35 U.S.C. 103(a) as being unpatentable over Uchida et al. (US Patent number 6,590,878) in view of Uchida et al. (US Patent number 6,532,364).

Regarding **claims 2 and 8**, Uchida (878) discloses that a wireless local loop access network system (Fig. 1). Uchida (878) teaches that at least one base station (BS1, 2 in Fig. 1) making radio communication (Fig. 1) with a plurality of subscriber's terminals (MS, WS in Fig. 1) (Fig. 1 and column 10, lines 45 – 67). Uchida (878) teaches that a base station controller (MSC in Fig. 1) controlling said base station and connected to a public switched telephone network (6 in Fig. 1) (Fig. 1 and column 10, lines 45 – 67). Uchida (878) teaches that a memory (67 in Fig. 4) designed readable by said base station controller (5 in Fig. 4) for storing subscriber data therein (Fig. 23, 24 and column 12, lines 4 – 26). Uchida (878) also teaches that the memory (67 in Fig. 4) stores a second identifier used for identifying a subscriber in a radio-signal interface protocol (CDMA, TDMA) in said wireless local loop access network system (Fig. 4) (column 3, lines 15 – column 4, lines 16 and Fig. 25, 26 where teaches mobile switching center stores allocation information about the mobile stations and WLL stations, radio-signal interface protocol (CDMA, TDMA) in the memory).

However, Uchida (878) does not specifically disclose the limitation “the memory stores identifying a subscriber in an interface protocol between said wireless local loop access network system and said public switched telephone network and data about correspondence between the identifiers”. However, Uchida (364) teaches the limitation “the memory (98 in Fig. 4) stores identifying a subscriber in an interface protocol

between said wireless local loop access network system and said public switched telephone network and data about correspondence between the identifiers” (column 8, lines 29 – column 9, lines 22, Fig. 4, column 15, lines 1 – 64 where teaches the there are two kind of interface (radio signaling interface and ATM (data packet) interface) between mobile switching center (wireless local system) and public service telephone network and MSC stores the interfaces identification information for users). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Uchida (878) system as taught by Uchida (364). The motivation does so would be to improve communication service quality and communication reliability for users in wireless communication system.

Regarding **claims 3 and 9**, Uchida (878) discloses that the memory (67 in Fig. 4) stores at least one of first data about a location of each of subscriber (zone number of mobile station in Fig. 25), second data about certification of each of subscriber (subscriber number in Fig. 25), third data about status of a terminal of each of subscriber (see Fig. 25), and fourth data about service relating to a radio interface of each of subscriber (transmission type in Fig. 25) (column 13, lines 17 – column 14, lines 53 and Fig. 26, 27).

Regarding **claims 4 and 10**, Uchida (878) does not specifically discloses the limitation “the data includes data about whether a subscriber’s terminal is blockaded”. However, Uchida (364) teaches the limitation “the data includes data about whether a subscriber’s terminal is blockaded” (column 13, lines 5 – 59, Fig. 5, 12, and column 15, lines 1 – 54 where teaches according to the receiving data frame, MSC determines

whether data packet interface (ATM type) or radio interface and if not a ATM type, MSC blocks data packet transmitting from the terminal). It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the Uchida (878) system as taught by Uchida (364). The motivation does so would be to achieve efficient communication connection service for users in wireless communication system.

Regarding **claims 5 and 11**, Uchida (878) discloses that the data includes data about whether a subscriber's terminal is turned on or off (Fig. 25, 27 and column 13, lines 17 – column 14, lines 53).

Regarding **claims 6 and 12**, Uchida (878) discloses that the data includes data about whether a subscriber's voice should be kept secret (column 16, lines 1 – 29 and Fig. 4, 28).

Regarding **claim 13**, Uchida (878) and Uchida (364) disclose all the limitation, as discussed in claim 2. Furthermore, Uchida (878) teaches that transmitting an origination message in a radio protocol (CDMA, TDMA) to said base station controller (MSC includes base station controller in Fig.1) through said base station (BS in Fig.1) when a subscriber hooks a terminal off (Fig. 1 and column 10, lines 45 – column 11, lines 22 where teaches as the terminal does not transmit the data packet, the terminal transmits a message in radio protocol). Uchida (878) teaches that accessing said data stored (Fig. 23, 24) in said memory (67 in Fig. 4) to obtain an address in a public switched telephone network protocol (6 in Fig. 4) based on said origination message (column 12, lines 4 – 48), said this step being carried out by said base station controller (MSC in Fig. 1) (Fig. 4 and column 12, lines 4 – 48). Uchida (878) also teaches that transmitting a first message

together with said address in said public switched telephone network to said public switched telephone network (6 in Fig. 4) (column 12, lines 4 – 65).

Regarding **claim 14**, Uchida (878) discloses that the origination message includes a first identifier for identifying a subscriber (Fig. 4 and column 12, lines 4 – 48).

Regarding **claim 18**, Uchida (878) and Uchida (364) disclose all the limitation, as discussed in claims 2 and 13. Furthermore, Uchida (878) further teaches that the public switched telephone network (6 in Fig. 1) transmitting a first signal to said base station controller (MSC in Fig. 1) in a public switched telephone network protocol when said public switched telephone network (6 in Fig. 1) receives a phone call (communication connection) to a subscriber (Fig. 4 and column 12, lines 4 – 48). Uchida (878) teaches that the base station controller (MSC in Fig. 1) accessing said memory (67 in Fig. 4) to obtain a first identifier (Fig. 1) in said public switched telephone network protocol for identifying said subscriber (Fig. 25), based on said first signal (column 2, lines 46 – column 3, lines 30 and column 12, lines 4 – 48). Uchida (878) teaches that the base station controller (MSC in Fig. 1) transmitting a page message (communication channel) in a radio protocol to said base station (BS in Fig. 1), said page message indicating that a phone call (communication connection) to said subscriber has been received and including said first identifier (column 2, lines 46 – column 3, lines 30 and Fig. 1, 4). Uchida (878) teaches that the base station (BS in Fig. 1), on receipt of said page message, broadcasting said page message (column 4, lines 45 – column 5, lines 21 and Fig. 11, 15). Uchida (878) also teaches that a terminal of said subscriber (MS in Fig. 11, 15) recognizing a phone call to itself by knowing that said first identifier, which is an



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identifier of said terminal (Fig. 25), is contained in the thus broadcast page message (column 15, lines 19 – column 16, lines 29).

*Allowable Subject Matter*

4. Claim 19 is allowed.

Claim 19 is allowable over the prior art of record because a search does not detect the combined claimed elements as set forth in the claim 19.

As recited in independent claim 19, none of the prior art of record teaches or fairly suggests that a wireless local loop access network system includes the public switched telephone network transmitting a port control signal to the base station controller, said port control signal indicating that a certain subscriber is to be blockaded, and indicating an identifier for identifying said certain subscriber and the base station controller storing that certain subscriber is to be blockaded in the memory and access to memory and knowing the blockaded subscriber and then transmitting to base station for interrupting phone call, and together with combination of other element as set forth in the claim 19. Therefore, claim 19 is allowable over the prior art of records.

5. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not

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mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

***Conclusion***

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks  
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or faxed to:

(703) 308-9051, (for formal communications intended for entry)

Or:

(703) 308-6606 (for informal or draft communications, please label  
"PROPOSED" or "DRAFT").

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to **John J. Lee** whose telephone number is (703) 306-5936. He can normally be reached Monday-Thursday and alternate Fridays from 8:30am-5:00 pm. If attempts to reach the examiner are unsuccessful, the examiner's supervisor, **Nay Aung Maung**, can be reached on (703) 308-7745. Any inquiry of a general nature or

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relating to the status of this application should be directed to the Group receptionist  
whose telephone number is (703) 305-4700.

J.L  
August 10, 2004

John J Lee

*Quochien B. Vuong* 8/21/04

QUOCHIEN B. VUONG  
PRIMARY EXAMINER